

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF FIREHOUSE HAZARD IDENTIFICATION BEACONS ON NORTHBOUND AND SOUTHBOUND MD 30 (HANOVER PIKE) APPROACHING OLD HANOVER ROAD FOR THE BORING VOLUNTEER FIRE DEPARTMENT IN BALTIMORE COUNTY. MD 30 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL BE ACTUATED WITH OPTICOM DETECTION LOCATED ON OLD HANOVER ROAD.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER. INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESSSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

<u>EQUIPMENT LIST "A"</u>		
A. EQUIPMENT TO BE SUPPLIED BY THE SHA		
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER, RELAY AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9571	72 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH W96-7 SIGN (108 IN. x 48 IN.) - MAST ARM MOUNT

<u>EQUIPMENT LIST "B"</u>		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 C.Y.	TEST PIT EXCAVATION
8001	9 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8014	2 EACH	MAST ARM POLE (15' T) AND 50 FT. MAST ARM
8018	1 EACH	PEDESTRIAN POLE (ANY SIZE)
8023	1225 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 12 A.W.G.)
8029	1200 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8035	470 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8036	50 L.F.	FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8037	35 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT OR OTHERS
AS NECESSARY FOR MAINTENANCE OF TRAFFIC.

STANDARD NO. MD-104.00 - 104.00-30	STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)	
STANDARD NO. MD-104.33-01 (SHOULDER WORK)	
STANDARD NO. MD-104.34 (LANE SHIFT)	

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 321-2781/2785	MS. SUENETTE POPE DISTRICT UTILITY ENGINEER PHONE: (410) 321-2841
MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 321-2761	MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

A } 5-CONDUCTOR ELECTRICAL
B } CABLE (NO. 12 A.W.G.)

C } 5-CONDUCTOR ELECTRICAL
D } CABLE (NO. 14 A.W.G.)

E } 4-CONDUCTOR OPTICOM
DETECTOR CABLE


F } STRANDED BARE COPPER
GROUND WIRE (NO. 6 A.W.G.)

G } 1-CONDUCTOR ELECTRICAL
H } CABLE (NO. 4 A.W.G.)
J }

PE/PT - PROPOSED UNDERGROUND
TELEPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

The diagram illustrates a long-distance wiring system. A central horizontal cable is supported by several ground rods, each labeled 'A, F'. At the left end, a vertical cable bundle (conductors A, C, B) connects to the main line. At the right end, a junction box 'C&P 207033' serves as a central hub. It connects to a vertical cable bundle (conductors B, D, C) and another cable bundle (conductors A, B, E, F, G, H, J). Various labels like 'B, F', 'A, F', 'E, F', and 'A, B, E, F' are placed along the lines to indicate specific conductor connections and ground points.


 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 GENERAL INFORMATION SHEET
 HAZARD IDENTIFICATION BEACON
 NORTHBOUND AND SOUTHBOUND MD 30
 OLD HANOVER RD @ GLEN FALLS RD

DRAWN BY: <u>B. DONOWAY</u> CHECKED BY: <u>N. LEARY</u> SCALE: <u>NONE</u> DATE: <u>*DATE*</u>	F.A.P. NO. _____ S.H.A. NO. <u>AT3575185</u> COUNTY: <u>BALTIMORE</u> LOG MILE: <u>03030002.51</u>	TS NO. _____ TS-4311	SHEET NO. _____ <u>2</u> OF <u>2</u>
		T.I.M.S. NO. _____ 6173	